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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,438	11/24/2003	Paulo Irulegui Gomes	ELG057-US1	5110

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TYCO ELECTRONICS CORPORATION  
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MENLO PARK, CA 94025

EXAMINER
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GRAY, LINDA LAMEY

ART UNIT	PAPER NUMBER
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1734

DATE MAILED: 06/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/720,438	GOMES ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Linda L. Gray	1734	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 11-24-03, 4-23-04, 8-29-05, 9-16-05, 3-15-06.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) 20-26 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 April 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                                    |

**Detailed Action**

**Election/Restriction**

**1. Claims 20-26** are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 3-15-06.

**Claim Rejections - 35 USC 102**

**2.** The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**3. Claims 1-2 and 9-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Yaniv et al. (US 4,827,084)**

**Claims 1 and 9**, Yaniv et al. teach a method of manufacturing touch sensor 11 including providing substrate having a resistive touch region and providing tape strips 61a, 61b, 51a, 51b (abstract; c 8, L 1-39) with a plurality of devices (c 8, L 40-43). The devices are diodes (c 8, L 40-43). Diodes include two terminals allowing electrical current conduction from one terminal to the other and back. The strips are secured along the four edges of the touch region. Diodes function with one terminal in contact with the touch region and the other terminal secured to an electrically conductive lead such as leads 52a-g, 53a-g, 62a-g, and 63a-6 (**claims 2 and 10**).

**Claim Rejections – 35 USC 103**

**4.** The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**5. Claims 4-5, 7-8, 12-13, and 18-19 are rejected under 35 USC 103(a) as being unpatentable over Yavin et al.**

*Claims 4-5 and 12-13, Yavin et al. do not elaborate in the structure of the diodes, i.e., thin films; include a conductive polymer (claims 4-5 respectively, claims 12-13 respectively).*

However, thin films diodes and diodes including a conductive polymer are conventional diodes used in the touch screen art.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have provided in Yavin et al. that the diodes are thin films diodes and diodes including a conductive polymer as is conventional in the touch screen art to allow electrical current conduction from one terminal to the other and back.

*Claims 7-8 and 18-19, Yavin et al. do not elaborate in the structure of the touch region, i.e., a resistive layer having a dielectric (cover) layer thereover (claims 7-8 respectively, claims 18-19 respectively).*

However, a touch region of a touch screen including a resistive layer having a dielectric (cover) layer thereover is conventional in the touch screen art.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have provided in Yavin et al. that the touch region include a resistive layer having a dielectric (cover) layer thereover as is conventional in the touch screen art to allow the touch screen to operate as required when touched.

**6. Claims 3, 6, 11, and 14-17 are rejected under 35 USC 103(a) as being unpatentable over Yavin et al. as applied to claims 1-2 and 9-10 above, and further in view of Keisuke (JP 59-78584).**

***Claims 3 and 11, Yavin et al. do not elaborate in the structure of the diodes, i.e., surface mounted.***

Keisuke teaches that to enable easy manufacture, surface mounted diodes can be arranged on a tape which is cut to the length needed, and then bonded.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have provided in Yavin et al. surface mounted diodes in the manner disclosed by Keisuke which are then secured by bonding to enable easy manufacture.

***Claims 6 and 14, Yavin et al. teach tape strips but does not teach how the tape strips are secured, i.e., bonded.***

Keisuke teaches that to enable easy manufacture, diodes can be arranged on a tape which is cut to the length needed, and then bonded.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have provided in Yavin that the tape strips are provided in the manner disclosed by Keisuke which are then secured by bonding to enable easy manufacture.

The limitation of **claim 15-17** are met in that in Yavin et al. modified, the strips are provided from a reel, cut from the single reel, and cut from a continuous sheet from the reel.

### **Conclusion**

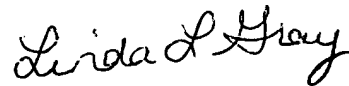
**7.** Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linda Gray whose telephone number is (571) 272-1228. The examiner can normally be reached Monday-Friday from 9:00 am to 5:00 pm.

**Art Unit: 1734**

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla, can be reached at (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public Pair. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-1997 (toll-free).

llg  
May 30, 2006



LINDA GRAY  
PRIMARY EXAMINER